

ABSTRACT OF THE DISCLOSURE

A system and method for establishing estimated values of electrical parameters of a motor. The electrical parameters may be established from motor databases, measured input electrical data, measured output data, and various estimations to account for unknown
5 motor parameters. Compensations also may be provided for stator resistance, cable resistance, and other motor parameters. Based on the foregoing data, the system and method also may be used to estimate motor operating parameters, such as torque, efficiency, output power, output speed, and other performance criteria of the motor. The system and method also may establish energy and monetary comparison data between the motor and at
10 least one alternative motor.